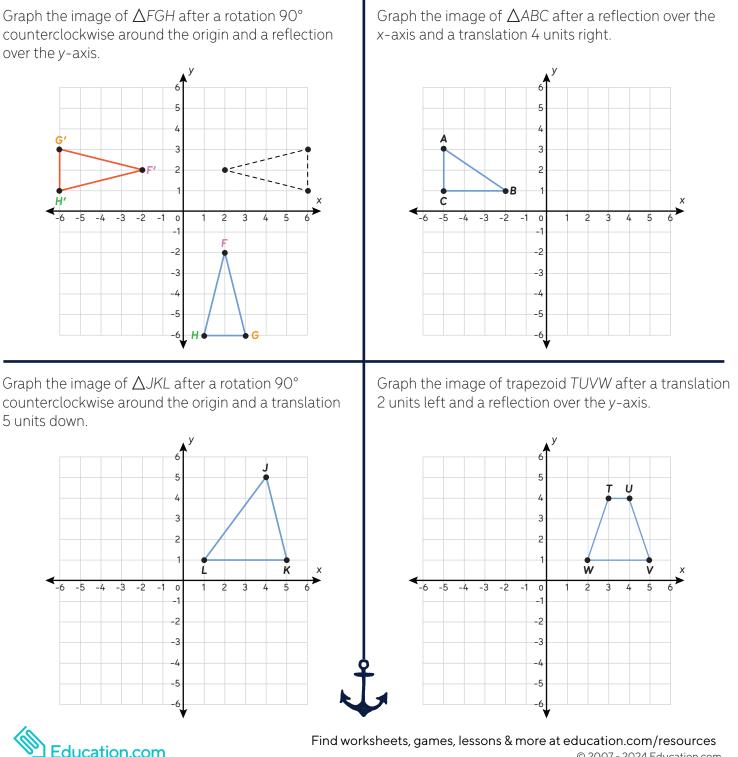
Page 1

Sequences of Congruence Transformations

Translations, reflections, and rotations are congruence transformations. If a figure goes through a sequence of congruence transformations, the resulting figure and the original figure are congruent.

Try it! Graph each transformed figure and label its vertices. The first problem has been done for you.

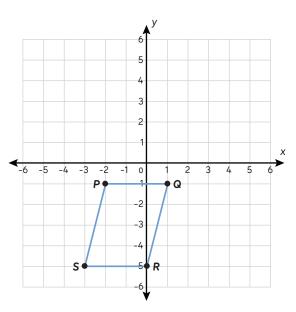


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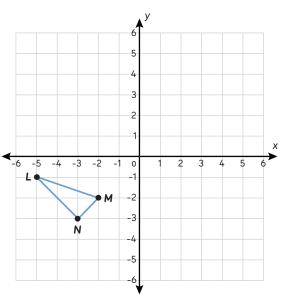
Sequences of Congruence Transformations

Keep going! Graph each transformed figure and label its vertices.

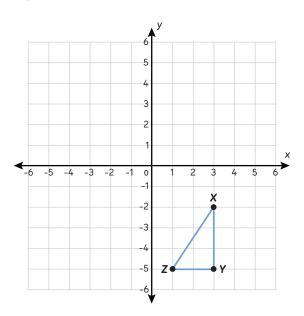
Graph the image of parallelogram PQRS after a translation 3 units left and a rotation 180° counterclockwise around the origin.



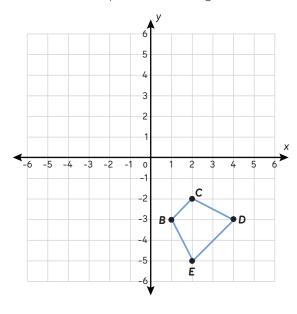
Graph the image of $\triangle LMN$ after a translation 3 units up and 7 units right and a reflection over the line y = -2.



Graph the image of $\triangle XYZ$ after a reflection over the line x = -1 and a rotation 90° counterclockwise around the origin.



Graph the image of trapezoid *BCDE* after a rotation 270° counterclockwise around the origin and a translation 2 units up and 4 units right.





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